

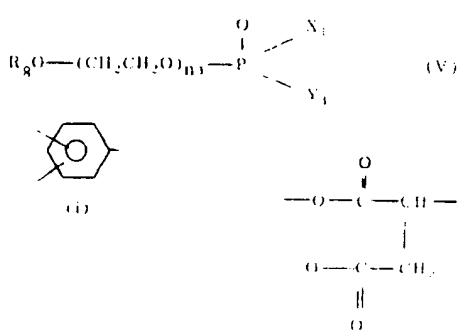
88-116706/17 LION CORP 05.09.86-JP-208969-(22.03.88) C11d-01/72 C11d-07/50 C11d-10/12	E19 G04 LIOY 05.09.86 *J6 3063-799-A	E(5-B, 5-G9D, 10-A9B, 10-C4C, 10-C4L, 10-E4K, 10-E4M3) G(4-88)
Emulsifier compsn. for dry-cleaning solvent - comprises polyoxyethylene nonionic activator and e.g. carboxylic acid cpds. for highly stable water emulsion C88-052625		
A new emulsifier compsn. for dry-cleaning solvents contains (A) 5-70 wt. % of a nonionic activator of formula (I) and (B) one or more cpds. of formulae (II) to (V) with a (B)/(A) ratio of 0.05-0.7.		
$\text{R}_1-\text{O}-\text{CH}_2\text{CH}_2\text{O}-\text{H} \quad (\text{I})$ $\text{R}_3-\text{COO}-\text{CH}_2\text{CH}_2\text{O}-\text{H} \quad (\text{II})$ $\text{R}_5-\text{COOM}_1 \quad (\text{III})$ $\text{R}_6 \quad \text{X}-\text{SO}_3\text{M}_2 \quad (\text{IV})$ $\text{R}_7 \quad \text{Y}_1 \quad \text{Y}_2$		
$\text{R}_1 = 8-20\text{C} \text{ alkyl or alkenyl gp. or } (8-20\text{C} \text{ alkyl gp.})\text{-substd. phenyl gp.};$ $\text{n}_1 = 2-20;$ $\text{R}_3 = \text{H or } \text{CH}_3;$ $\text{R}_4 = \text{H or } \text{CH}_3;$ $\text{R}_5 = 8-20\text{C} \text{ alkyl or alkenyl or } (8-20\text{C} \text{ alkyl})\text{-substd. phenyl gp.},$ $\text{M}_1 = \text{Ca, Al or Mg.}$ $\text{X} = (\text{i}) \text{ or } (\text{ii}).$ $\text{R}_6, \text{R}_7 = \text{H or } 8-22\text{C} \text{ alkyl or alkenyl (they may be same of different but they are not both II)}$ $\text{M}_2 = \text{alkali(ne earth) metal,}$ $\text{R}_8 = 8-20\text{C} \text{ alkyl or alkenyl,}$ $\text{n}_2 = 0-10;$ $\text{X}_1, \text{Y}_1 = \text{OM}_1 \text{ or } -(\text{OCH}_2\text{CH}_2\text{O})_{n_1}-\text{OR}_8 \text{ and}$ $\text{M}_3 = \text{H or alkali(ne earth) metal.}$		
USE/ADVANTAGE The compsn. gives a highly stable water-solvent emulsion. It prevents resoiling and gives good flexibility to wool, cotton, flax, etc. (6ppDwgNo0/0).		
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$\text{R}_2 = \text{H or } \text{CH}_3;$
 $\text{R}_3 = 8-20\text{C} \text{ alkyl or alkenyl gp. or } 8-20\text{C} \text{ alkyl or alkenyl gp. or } (8-20\text{C} \text{ alkyl gp.})\text{-substd. phenyl gp.};$
 $\text{n}_1 = 2-20$
 $\text{R}_4 = \text{H or } \text{CH}_3,$
 $\text{R}_5 = 8-20\text{C} \text{ alkyl or alkenyl or } (8-20\text{C} \text{ alkyl})\text{-substd. phenyl gp.},$
 $\text{M}_1 = \text{Ca, Al or Mg.}$
 $\text{X} = (\text{i}) \text{ or } (\text{ii}).$
 $\text{R}_6, \text{R}_7 = \text{H or } 8-22\text{C} \text{ alkyl or alkenyl (they may be same of different but they are not both II)}$
 $\text{M}_2 = \text{alkali(ne earth) metal,}$
 $\text{R}_8 = 8-20\text{C} \text{ alkyl or alkenyl,}$
 $\text{n}_2 = 0-10;$
 $\text{X}_1, \text{Y}_1 = \text{OM}_1 \text{ or } -(\text{OCH}_2\text{CH}_2\text{O})_{n_1}-\text{OR}_8 \text{ and}$
 $\text{M}_3 = \text{H or alkali(ne earth) metal.}$

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$\text{R}_1 = 8-20\text{C} \text{ alkyl or alkenyl gp. or } (8-20\text{C} \text{ alkyl gp.})\text{-substd. phenyl gp.};$
 $\text{n}_1 = 2-20;$

USE/ADVANTAGE
The compsn. gives a highly stable water-solvent emulsion. It prevents resoiling and gives good flexibility to wool, cotton, flax, etc. (6ppDwgNo0/0).